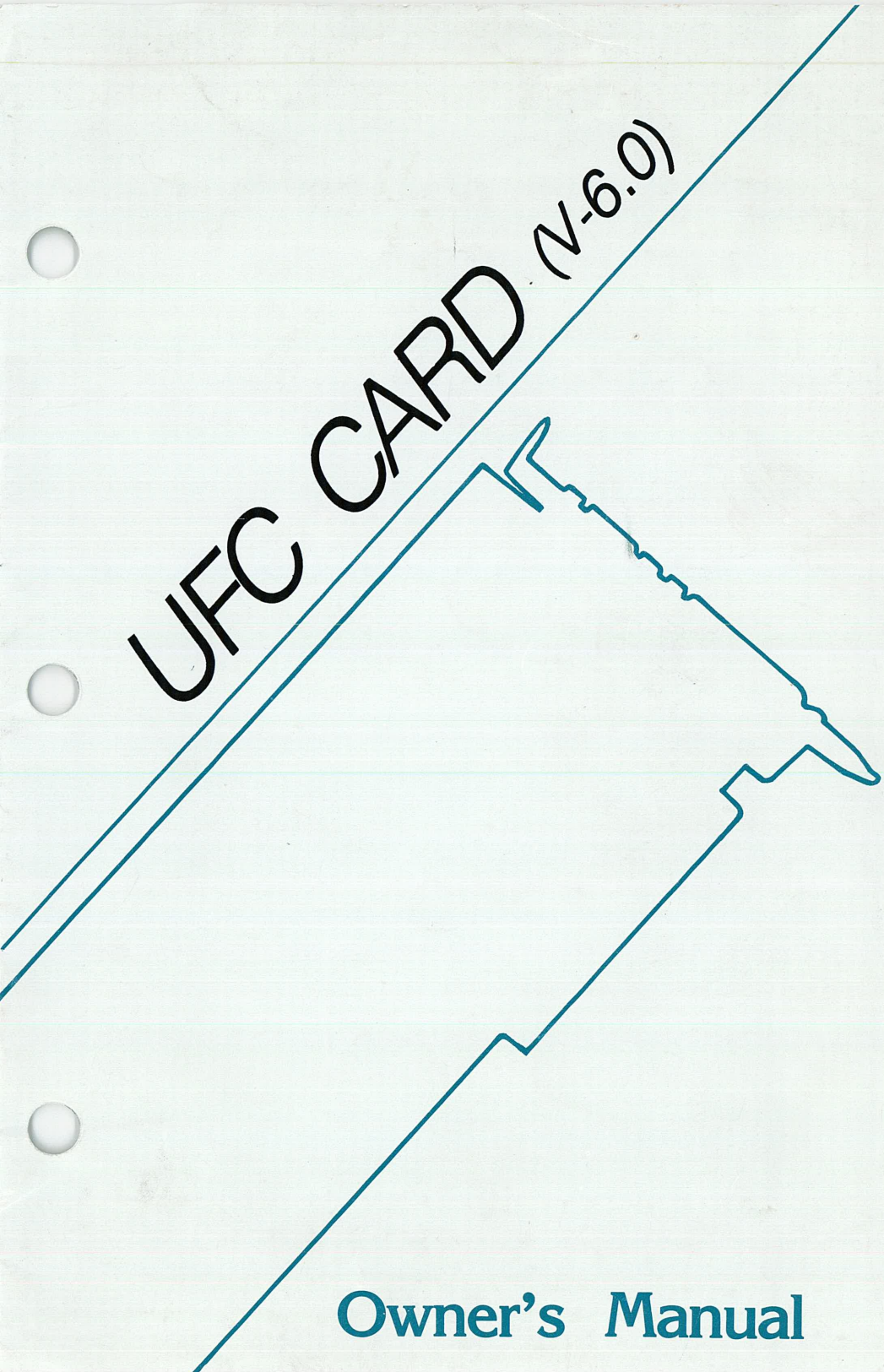
UFC CARD (V-6.0)



Owner's Manual

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* *All product names are trade marks of their manufacturers*

Section 1. Introduction

The UFC is a Floppy Disk Controller for IBM PC, PC/XT, PC/AT or their compatibles. It is designed to interface up to four floppy disk drives: 3-1/2″ 720K, 1.44m, 5-1/4″ 360K and 1.2M. It provides connectors for connecting two internal and two external drives option or four internal drives. Each one of the drives can be 1.44M 3.5″ floppy drive kit is also available as option to the UFC card. The UFC is compatible with DOS 2.X and DOS 3.X. However, DOS 3.X is required to operate 1.2M drives and DOS 3.3 to operate 1.44M drives.

Section 2. Jumper Settings

SWITCH STATUS FOR DRIVER*			0:ON (SHORT)		1:OFF (OPEN)	
J2 J1	DRIVE A	J4 J3	DRIVE B	J5	DRIVE C	DRIVE D
0 0	360K	0 0	360K	1	720K	1.4M
0 1	1.2M	0 1	1.2M	0	360K	1.2M
1 0	720K	1 0	720K			
1 1	1.4M	1 1	1.4M			

* Note: Please refer to section 4.

Section 3. Installing The Optional External 3.5″ Floppy Drive

(skip this section if there is no external drive to be installed)

1. Install the power conversion cable

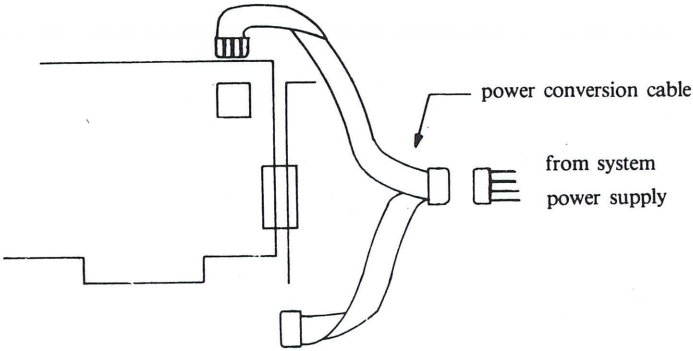


Figure 1.

2. Install the external drive cable.

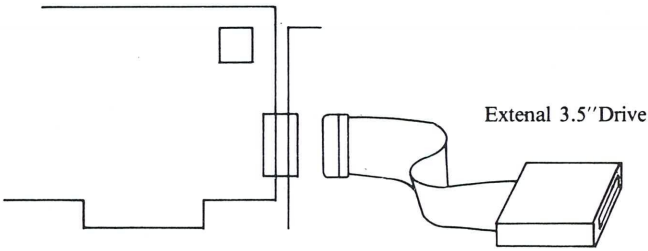


Figure 2.

Section 4. Select Drive type through keyboard.

1 You can use either the jumper, JP1-Jp5, or keyboard to define the drive type.*

Note:
Some kinds of bios don't support to define Drive Type through keyboard.

2 After the signon message 'UFC BIOS VERSION *.*, COPYWRITE (C), 1988 1989' ON THE DISPLAY, you can press "CTRL" "ALT" "RIGHT SHIFT" keys simultaneously to select drive type. You can get information as following:

'TYPE ONE KEY (1—4) TO SELECT DRIVE TYPE {1->360K, 2—>1.2M, 3—>720K, 4—>1.4M}

ORIG—>UPDATE
DRIVE A.....360K

The item 'ORIG' show what kinds of drive defined. The item 'UPDATE' will show you to select drive types.

Section 5. Auto-switch the number of drives.

1 For PC, PC/XT, or PC/AT, or compabilities, the UFC BIOS will automatically modify the number of drives for system according to how many the drives have been installed.

2 For 3rd or 4th floppy drive, the UFC BIOS will automatically update the current drive number according to how many drives have been installed on your system, so don't need install the 3rd drive or 4th drive by DOS Software Utilities, DRIVER.SYS, again.

For example:

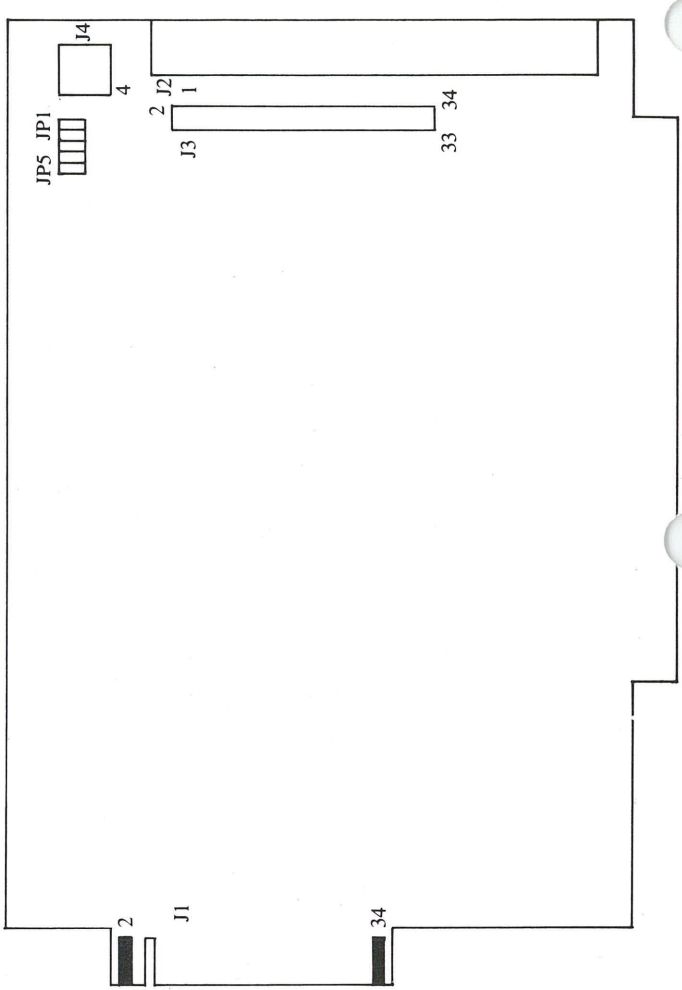
Case 1 If floppy drive A, B, C, D are installed, the number of drives will be changed to 4 automatically by UFC BIOS.

Case 2 If four floppy drivers and two Hard Disk Drivers have been installed, the driver number will be assigned as following.

Floppy drive A, B, C, D will be assigned to physical floppy drive, and Hard Disk Driver will be assigned to E, F.

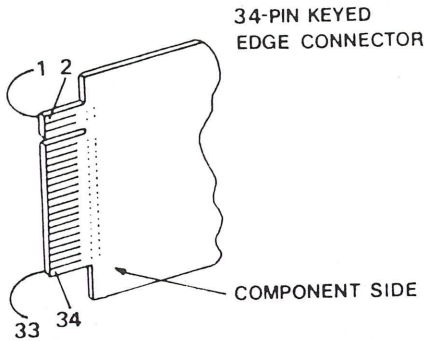
Appendix A.

A-1. Jumpers and Connector location on UFC Board.



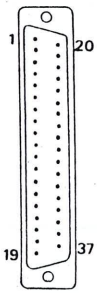
A-2. Connector Pin Assignment

J1



		Land No.	
Internal Diskette Drive	Ground Odd Number	1-33	Drive Adapter
	Reduced Current	2	
	Unused	4,6	
	Index	8	
	Motor Enable A	10	
	Drive Select B	12	
	Drive Select A	14	
	Motor Enable B	16	
	Direction (Stepper Motor)	18	
	Step Pulse	20	
	Write Data	22	
	Write Enable	24	
	Track ϕ	26	
	Write Protect	28	
	Read Data	30	
	Select Head 1	32	
	Disk Change	34	

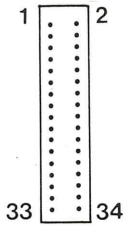
J2



	+12V*	1	
	2GND*	2	
	GND*	3	
	+50*	4	
	Reduced Current	5	
	Index	6	
	Motor Enable C	7	
	Drive Select D	8	
	Drive Select C	9	
	Motor Enable D	10	
External Drive	Direction (Stepper Motoe)	11	Drive Adapter
	Step Pulse	12	
	Write data	13	
	Write Enable	14	
	Track	15	
	Write Protect	16	
	Read Data	17	
	Select Head 1	18	
	Diskchange	19	
	Ground	20-37	

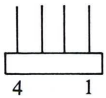
*NOTE: Pin 1 to 4 are used to run power to external 3.5″ floppy drive.

J3



		Land No.	
	Ground Odd Number	1-33	
	Reduced Current	2	
	Unused	4,6	
	Index	8	
Internal Diskette Drive	Motor Enable C	10	Drive Adapter
	Drive Select D	12	
	Drive Select C	14	
	Motor Enable D	16	
	Direction (Stepper Motor)	18	
	Step Pulse	20	
	Write Data	22	
	Write Enable	24	
	Track ϕ	26	
	Write Protect	28	
	Read Data	30	
	Select Headl	32	
	Disk Change	34	

J4



PIN 1:	+5V
PIN 2:	GND
PIN 3:	GND
PIN 4:	+12V

Note

Note

FCC Compliance Statement

This equipment has been certified to comply with the limits for a Class B computing device, pursuant to subpart J of Part 15 of FCC Rules. Operation with non-certified computers is likely to result in interference to radio and TV reception.

This equipment uses and may generate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been tested with a certified Class B Computer and been found to comply with has limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. PLEASE NOTE THAT ALL PERIPHERALS MUST BE ATTACHED WITH SHIELDED CABLES TO PREVENT INTERFERENCE.

If this equipment does cause interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient the receiving antenna.
2. Plug the computer into a different outlet.
3. Relocate the computer with respect to the receiver.
4. If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.